

Appl. No. 10/737,365
Amdt. Dated March 8, 2005
Reply to Office Action of 12/08/2005

Docket No. CM011215
Customer No. 22917

Amendments to the Specification:

Please replace the paragraph beginning at page 8, line 15 with the following rewritten paragraph:

FIG. 2 shows one form of the unit 14 for producing and positioning the beam 15 for use in the system shown in FIG. 1. A light source 21 produces a beam of light 24 which is incident onto a concave mirror 22 which is part of a MEMS (Micro Electrical Mechanical System) which is capable of electro-mechanically steering the beam 15 which is produced as a reflected beam by the mirror 22 from the beam 24. Unit 14 further includes a processor 37.

Please replace the paragraph beginning at page 8, line 23 with the following rewritten paragraph:

FIG. 3 shows one form of imager location system for use in the illumination and reader system shown in FIG. 1. The unit 14 shown in FIG. 2 is again used. A focused and modulated beam of infra-red radiation is produced by a source 30 and is directed at the mirror 22. The beam is modulated to avoid the detection system being saturated or confused by infra-red energy from external sources such as the sun or room lighting. The beam is ~~and~~ reflected by the mirror 22 to produce an infra-red beam 31. The beam 31 is scanned over a search area 32 by the mirror 22 until it is reflected back by a small target reflector 33 carried on the imager 11. A reflected beam 34 is thereby produced which is detected by a sensor 35 carried by the unit 14. The orientation of the beam 31 at the instant the reflected beam 34 is detected by the sensor 35 is recorded by a ~~processor 36~~ processor 37 included in the unit 14. This orientation captures the instant position of the reflector 33 and imager 11 within the area scanned by the infra-red beam 31. A suitable incremental change in orientation of a required principal direction or axis 36 of the beam 15 is made by adjustment of the orientation of the mirror 22 causing the beam 15 to illuminate the target 12 (FIG. 1) in an area within the field of view 13 of the imager 11.

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Please replace the paragraph beginning at page 6, line 11 by the following rewritten paragraph:

By the invention, the functions of the illuminating means and the reader device are separated. In contrast to the prior art, the user does not have to adjust the illuminating device to ensure that the region of the target which is illuminated is within the field of view of the reader device. This adjustment is beneficially undertaken automatically by signals from the the detection means controlling and adjustment of the illuminating ~~illuminating~~ means. Consequently, the reader device can be suitably small and lightweight and therefore ergonomically more satisfactory than low power prior art bar code readers for use in a single unit in association with an illuminating means.